

IN THE CLAIMS:

1.(Amended): An apparatus for removing residue in a fuel cell system having a plurality of flow fields for fuel gas and for oxidant, comprising:

an adsorbent tank storing adsorbent therein for adsorbing the residue from the fuel cell system;

a vacuum pump connected to the adsorbent tank for separating the residue adsorbed by the adsorbent;

a pressure gauge for determining the pressure of the adsorbent tank;

first shut off valves mounted on input passages to the flow fields;

second shut off valves mounted on output passages from the flow fields;

third shut off valves mounted on input passages to the adsorbent tank, which are diverged from the output passages between the flow fields and the second shut off valves; and

a fourth shut off valve mounted on an output passage from the adsorbent tank to the vacuum pump.

2. (Amended): The [[An]] apparatus of claim 1, wherein the plurality of flow fields further includes a flow field for coolant.

3. (Amended): The [[An]] apparatus of claim 1, wherein a coolant drain pump is mounted on the output passage from the flow field for coolant.

4. (Amended): The [[An]] apparatus of claim 1, wherein the adsorbent is selected from one of zeolite and silica gel.

5. (Amended): The [[An]] apparatus of claim 1, wherein an [[the]] inner space of the adsorbent tank is divided into sections corresponding to the flow field for fuel gas and the flow field for oxidant.

6. (Amended): The [[An]] apparatus of claim 5, wherein the adsorbent in each section of the adsorbent tank is selected based on the kind of residue adsorbed in the section.

7. (Amended): The ~~[[An]]~~ apparatus of claim 1, further comprising a heat exchanger interposed between a fuel cell stack and the adsorbent tank, transferring emitted heat from the fuel cell stack to the adsorbent tank.

8.-20. (Cancelled)